Primary Exercises

MENTAL Arithmetic

FOR

THIRD YEAR

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MENTAL III.—1.

	THE III.—I.
1.	How many pints in 4 quarts and a half?
2.	How many hours in half a day?
3.	How many inches in 2 feet?
	Ans
4.	From $6 + 9 + 8$ take 9.
	Ans
5.	From five times 5 take three times 3.
6.	Ans
7.	Ans
8. 9.	From 24 take 16. Ans From three times 6 take twice 7.
LO.	How many are three 9's and two 4's?
	Ans

MENTAL III.—2.

1.	How many pints in 10 quarts and a half?
2.	How many minutes in half an hour?
	Ans
3. 4.	From 9 + 8 + 7 take 6. Ang
	Ans
5.	45 nuts; nine are bad; how many left?
	Ans
6.	How many inches in half a foot?
	Ans
7.	63 bricks are put 7 in a pile. How many piles?
,	Ans
8.	How many are a half of 24 marbles?
	Ans
9.	How many slates at 8 cents each can you buy for 56 cents?
	Ans
10.	How many 2-cent stamps can I buy for 50 cents?
	'Ans

MENTAL III.—3.

1.	How many and the
	How many quarts in 7 gallon and a half?
	Ans
2.	How many minutes in 2 hours?
3.	How many inches in 3 feet?
	Ans
4.	To four times 8 add twice 5.
	Ans
5.	From seven times 8 take 11.
	Ang
6.	How many does 13 need to make 25?
	Ans.
7.	6 horses, 7 cows, 9 sheep, 8 goats. How many animals?
	Ans
8.	How many minutes in one hour and 40 mins.?
9.	How many legs have 3 dogs and 4 boys?
•	Ana
.0.	45 marbles; won 11 and lost 9. How many now?
	Ans

MENTAL III.-4.

MENTAL III.—4.
1. How many pints in 8 gallon?
Ans
2. How many minutes in 1 of an hour?
3. How many inches in one yard?
Ans
4 30 + 14 less 9. Ans
5. How many quarters in 2 apples?
Ans
6. How many does 17 need to make 26?
7. 9 doves, 8 robins, 5 crows, 9 blackbirds. How many birds?
8. I have 40 plums and sell 12. How many left?
Ans
9. 31 days in July; 22 were dry. How many were wet?
Ans
10. A basket holds 40 eggs, and I wish to fill it. I have 28 eggs. How many more do I need?
Ans

MENTAL III.—5.

1.	How many pints in 2½ gallons?
2.	Ans
3.	Ans
4.	" many quarters in 2 dollars?
5.	How many does 18 need to make 30?
6.	How many 3-cent candles can I buy for 27 cents.
	Ans
7.	Cost of 8 quarts of berries at 9 cents a quart.
8.	Ans What number will you add to 14 to make 30?
9.	Ans There are 75 pages in one book and 30 in another. How many more pages in one than the other?
0.	Ans How many five cent pieces in 45 cents?
	Ans

MENTAL III.—6.

	111.—0.
1.	How many cups of water, each holding half a pint, will make 2 quarts?
2.	Ans How many months in half a year?
3.	Ans How many feet in 9 yards?
4.	Ans How many quarters in 6 dollars?
5.	Ans How many does 31 need to make 50?
6.	Ans How many faces have six cubes?
7.	How many sixes in $7+5+8+9+7$?
8.	When milk is 8 cents a quart, how much for one pint?
9. 7	Ans There are 36 children in a class, and 4 of them are absent. How many are absent?
10. I	Ans How many are present? Ans

MENTAL III.—7.

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	mental III.—7.
1.	How many cups of water, each holding half a pint, will make 2 gallons?
2.	-on many months in 4 of a year?
3.	menes in a root and a nair?
4.	What will you add to 27 to make 40?
5.	How many faces have 8 cubes?
6.	How many sevens in $6+5+9+8+7$?
7.	Ans When milk is 8 cents a quart, how much for a quart and a half?
8.	Ans One example is worked in 3 min. How many could be worked in half an hour?
9.	Ans A book has 22 pages. How many pages in 3 such books?
10.	Ans There are 18 panes of glass in one window, 12 in another, 11 in another How many panes altogether?
	Ans

MENTAL III.—8.

	MENTAL 111.—8.
1	One page is read in 4 min. How many pages could be read in one hour?
2.	Ans
44,	- w many months in 2 years?
3.	How many eights in $9 + 5 + 8 + 9 + 7 + 5 + 7 + 6$?
	When milk is 6 contra
4.	3 pints?
	Ans
5. 6.	What is $\frac{1}{4}$ of 36 ? Ans
~	A man is 50 years old
7.	A man is 50 years old. How old was he 25 years ago?
8.	How old will he be in 28 years?
9.	Ans A man's wages are \$15 a week; he spends \$7 a week. How long will it take him to save \$72?
10.	Ans My hens lay 4 eggs a day; in how many days will they lay 3 dozen eggs? Ans

MENTAL III.—9

ges

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he

7 e

8

1	. How many quarts in 3 gallons?
2	Ans
3.	Ans Tom has 15 marbles, and John has twice as many. How many marbles altogether?
4.	Ans A girl saves 10 cents a month; how much in a year?
5.	How many feet have 11 sheep and 6 hens?
0	Ans
6.	What must I add to 88 cents to make a dollar?
7.	Cost of 2 gallong of mill
- •	Cost of 2 gallons of milk at 6 cents a quart?
8.	Ans
9.	Ans
	Ans From nine times 6 take seven times 7.
	Ans

MENTAL III.—10.

	10.
1.	72 apples are divided among 9 boys; how many can each have?
2.	John earns 2 dollars a week, his brother earns 6 dollars; how much do they earn together in 6 weeks?
3.	times eight?
4.	What part of a gallon is one quart?
5.	Ans Seven times eight, less six times nine, are how many?
6.	Oranges are 2 for 5 cents. How much is that a dozen?
7.	one in the afternoon?
8.	John is twelve years old and James is 9 years older. How old is James?
9.	Ans How many corners have 5 squares?
10.	Ans From a board a yard long, 10 inches are sawn off. How much remains?
	Ans

MENTAL III.—11.

	1	MENTAL III.—II.
any	1.	How many minutes in an hour and a half?
ns 6	2.	How many months in a year and a half?
r in	3.	Ans Oranges are 3 for 5 cents; how much is that a dozen?
five	4.	Ans 63 trees are planted in 9 rows; how many trees in each row?
ow	5.	John caught 7 trout, and Sam 5 more than John. How many did both catch?
nat	6.	Ans
to	7.	From a pile of woo containing 30 cords a teamster draws 13 cords. How many cords remain?
rs	8.	How many seconds in five minutes?
•	9.	Ans How many quarts in a peck and a half?
'n	10.	Ans How many days in December and January together?
		Ans

MENTAL III.—12.

1	How many minutes in an hour and a quarter?
2.	Ans
3.	Ans If you buy oranges at 3 for 10 cents, what would you pay for a half dozen?
4.	Ans What will a yard and a foot of ribbon cost at 5 cents a foot?
5.	How many hours from 3 p.m. to 8 p.m.?
6.	Ans How many days in July and August together?
7.	Ans
8.	How many quarts would be left over?
9.	Ans There are how many pecks in 4 bushels and 2 pecks?
0.	Find one of the five equal parts of 20?
	Ans

MENTAL III.—13

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.. at

1.	How many minutes in two hours and a quarter?
2.	Ans
3.	Ans From 15 take the sum of 6 and 5?
4.	Ans
5.	Ans Nine times Mary's age is 81; what is her age?
6.	Ans If 72 apples cost 9 cents, how many is that for one cent?
7.	Ans Cost of 2 bushels of wheat at 10 cents a peck?
8.	Ans Find one of the eight equal parts of 40.
9.	Ans How many pecks of beans in 64 quarts?
10-	Ans
	Ans

MENTAL III.—14.

1. If a steamer sails 9 miles an hour, how long will it take to sail 81 miles?
2. If 7 apples cost 14 cents, what will 11 apples
3. What will a peck of berries cost at 8 cents a quart?
4. How many minutes between 9.15 and 9.50?
5. How many months in eight years?
6. Six spoons are a set. How many spoons in nine sets?
7. What will 36 pears cost at 9 cents for a half dozen?
Ans 8. Mary spent 49 days with her aunt. How many weeks did she spend?
9. How many quarts in 4 gallons 3 quarts?
Ans 10. How many days in the last three months of the year?
Ans

MENTAL III.-15.

	10,
1.	How many days in the three spring months?
	Ans
2.	Cost of a bushel of cranberries at 40 cents a gallon.
	Ans
3.	Six spoons are a set. How many sets in five dozen spoons?
4.	Ans How many pounds of sugar at 6 cents a pound can I buy for 60 cents?
	Ans
5.	How many mins from 11.15 a.m. to 12.30 p.m.?
	Ans
6. 7.	Multiply two 3's by two 4's. Ans
	Ans
8.	What must I add to five times 5 to get 40?
	Ans
9.	How many minutes in 120 seconds?
	Ans
l 0.	W1 -+ will 27 feet of lace cost at 8 cents a yard?
	Ans

MENTAL III.—16.

	MENTAL III.—16.
1.	How many quarts in 1 of a bushel?
	Ans. I put 23 quarts into a ten-gallon can. How many more quarts will it take to fill the can?
3. 4.	Ans. What will 2 dozen peaches cost at 2 cents each? Ans. 3 quarts of berries will cost how much at 80 cents a peck?
5.	What must I pay for 20 eggs at 12 cents a doz.?
6.	Ans If a family eat 6 oranges every day, how long will 4 dozen last them?
7.]	Ans How many bouquets can I make from 6 dozen roses if I put 8 roses in each bouquet?
8. 7	Ans When apples sell at 1 cent apiece and oranges at 2 cents apiece, how much must I pay for a dozen of each?
9. F	Ans 'rom seven o'clock in the morning until nine o'clock in the evening is how many hours?
10. 30	Ans. lemons and 18 lemons are how many dozen? Ans.

MENTAL III.-51.

n?

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MENTAL III.—51.
1. Nellie has three cents, and Jessie has five times as many. How many cents has Jessie?
2. How many cents have Nellie and Jessie to-
3. What will twenty-five 2c stamps cost?
Ans. 4. If I walk nine miles a day, how far will I walk from Monday morning to Saturday night?
Ans. 6. If my hen lay eight eggs a day, how many days will it take them to lay six dozen?
7. If I buy two dozen eggs and use eighteen of them, how many eggs will I have left?
8. How many pairs of shoes will 8 horses wear?
9. If six eggs cost ten cents, what will three dozen cost?
Ans 10. What will two dozen and a half apples cost at the rate of a cent apiece?
Ans

MENTAL III.—52

1.	From 19 take the sum of 8 and 5.
	Ans
2.	From 40 take the difference between 50 and 30.
	Ans
3.	To 40 add the difference between 11 and 20.
4.	Ans To 37 add 9, and from the sum take 7.
5.	Ans To 65 add the difference between 17 and 8.
6.	Ans How many barrels of apples at \$3 can be bought for \$36?
7.	Ans In how many hours can 5 men do a piece of work that takes one man 60 hours?
8.	Ans How long will a quantity of oats last 12 horses if it will last one horse 84 days?
9.	Ans Cost of 1 peck 4 quarts of acorns at 10 cents a quart?
	Ans
10.	Cost of 2 feet of wire at 2 cents an inch?
	Ans

MENTAL III.—53.

			MENTAL 111.—53.
		1	From 21 take the sum of 3 and 4.
^			Ans
0.	1	2.	From 45 take the difference between 30 and 15.
		3.	Ana
•	Towns the second	4.	Ang
• •	7	5.	To the difference between 28 and 9 add 7.
			Ans
e	Ď.	6.	How many barrels of flour at \$4 can be bought for \$48?
of	6.		Ans
,,		7.	How many 5 cent pieces in \$2?
			Cost of 2 peaks of the
28	3 -	8.	Cost of 2 pecks of tomatoes at 5 cents a quart?
		0	A table is 120 inch.
a	•	9.	A table is 120 inches long. How many feet long is it?
		40	A back to see
•	2	10.	A book has 22 pages; how many pages in 5 such books?
•	•		Ans

MENTAL III.—54.

	_
1.	= 10m mo take the sum of a sing 5.
2.	From 60 take the difference between 40 and 15
3.	Ans To 36 add the difference between 21 and 7.
4.	Ans To 40 add 60, and from the sum take 30.
5.	Ans To the difference between 39 and 26 add 9.
6.	Ans How many dozen eggs at 12 cents a dozen can be bought for 96 cents?
6.	Ans How many 5 cent pieces in 75 cents?
7.	Ans Cost of half a bushel of chestnuts at 5 cents a quart?
8.	Ans What will a foot and a half of chain cost at 2 cents an inch?
9.	Ans A box of soap weighed 21 pounds, and another das much. How much did the two together weigh?
0.	Ans What part of a yard is 18 inches?
	Ans

MENTAL III.-55.

	MENTAL 111.—55.
1.	What will 24 feet of cable cost at 12 cents a yard?
2.	Ans Seven twelves are how many sixes?
3.	Bought a dozen pencils at 8 cents each; what change out of a dollar?
4.	Ans How many feet in 13 yards?
5.	Cost of half a dozen eggs, if 2 dozen cost 60 cents?
6.	Ans A train runs 75 miles in 5 hours. How many miles is that per hour?
7.	At 18 cents a peck, what shall I pay for ½ bushel of peas?
8.	How many yards and feet in 26 feet?
9.	Find the cost of 5 lb. of fish at 15 cents a pound.
	How many months in 8 years?
	Ans

n

1.	MENTAL III.—56. Half a dozen eggs cost 12 cents; what will 2
	dozen cost?
2.	Ans
3.	Ans Mary gives 15 cents for an arithmetic book, 6 cents for a copy-book, and 10 cents for an exercise book. How much for all?
4.	Ans
5.	you take going up and down?
6.	Ans Seven times nine, less five times twelve, are how many?
7.	Ans 16 inches are sawn off a yard-stick; how much remains?
8.	Ans Cost of 3 dozen pencils at 2 cents each?
9.	Ans I paid \$60 for a cow and \$140 for a horse. What did both cost?
0.	Ans There are 20 quires in a ream of paper; how many quires in 6 reams?
	'Ang

MENTAL III.—57.

1.	If you pay 20 cents for a dozen oranges and sell them at 3 cents each, how much do you gain:
2.	Ans
3.	Ans
4.	Ans If 5 apples cost 15 cents, what will a doz. cost?
5.	Ans In 4 pails there are 26 quarts of milk; 7 quarts in the 1st, 6 in the 2nd, 5 in the 3rd. How many in the 4th?
6.	lost. How many left?
7.	Ans. From 45 yards of braid cut off 7 yards, 8 yards, 9 yards, 6 yards, 10 yards. How many left?
8.	Ans How many pages in 12 books if each book has 60 pages?
9.	Ans A boy caught 6 bass and five times as many perch. How many fish?
10.	Ans. If 1 lb. of sugar cost 9 cents, what will 12 lbs. cost?
	Ans

MENTAL III.—58.

	111. 00.
1.	4 eggs have been found in a robin's nest. How many eggs in 25 such nests?
2.	9 times as much. How many lbs. in both boxes?
3.	How many are four 8's and three 4's?
4.	Ans How many barrels of pears at \$8 can be bought for \$96?
5.	Ans Mrs. White has 8 dozen eggs. How many does she require to have 100 eggs?
6.	How many days in 12 weeks?
7.	To 5 add 3, add 4, multiply by 6.
8.	Ans If 5 men can do a job in 10 days, how long will it take one man?
9.	How many feet are there in 15 yards?
10.	Ans 3 baskets contain 19 eggs. There are 5 in one basket and 4 in another. How many in the third?
	Ans

MENTAL III.-59

	11109.
1.	How many inches in 2 feet and a half?
2.	How many are four 9's and two 7's?
3.	Ans Bought a dozen pencils at 7 cents each; what change out of a dollar?
4.	Ans It takes 9 men 9 days to dig a trench. How long will it take 1 man?
5.	Ans What will half a dozen eggs cost if 3 dozen cost 60 cents?
6.	From nine times 9 take seven times 7.
7.	Ans A board is 20 inches long. How many inches must be sawn off to leave exactly a foot?
8.	Ans A farmer sold 4 cows at \$25 each, and spent his money on sheep at \$5 each. How many sheep did he buy?
9.	Ans To the sum of 12 and 7 add the sum of 9 and 8.
0.	Ans I have 40 pears; we eat 11, give away 12; 6 are bad. How many left?
	Ans

MENTAL III.—60.

	111. 00.
1.	How many days in February and March to- gether this year?
2.	" - der more are o bushels than 9 pecks?
3.	One quarter of an hour is how many minutes?
4.	Ans
5.	Ans
6.	How many pounds of sugar at 6 cents a pound will pay for 9 quarts of berries at 8 cents a quart?
7.	Ans What is the difference between ½ of 12 and ½ of 15?
8.	How many eggs at 5 for 6 cents can I buy for 30 cents?
9.	Ans James cuts half a foot from a cord a yard long. How many inches of cord remain?
10.	Ans Harry has 15 marbles and Jim has 12, but Harry gives Jim 4; how many has each then?
-	Ans

MENTAL III-61.

1.	From 21 take the difference between 15 and 7
2.	Ans
	work that takes one man 66 hours?
3.	spelt incorrectly. How many words were correct?
4.	Ans A farmer has 12 sheep; seven of them have 2 lambs each. How many sheep and lambs together?
5.	a week. How much will he save in 6 weeks?
6.	How many minutes from 9 a.m. to 10.45 a.m.?
7.	Ans A boy spends 7 cents an hour from 7 a.m. till 3 p.m. How much has he left out of 60 cents?
8.	Ans. If I pay 15 cents for 3 lbs of sugar, what must I pay for a dozen lbs.?
9.	The quotient is 15, the d visor 5; find the dividend.
0.	Ans. What will 7 eggs cost at 24 cents a dozen? Ans.

MENTAL III.—62.

1.	6 cents a quart?
	Thorn and G
2.	There are 65 pages in one book and 40 in another. How many more pages in the first than in the second?
	Ang
3.	How many pages in both books?
	What will 6 bottles and 43 70
4.	will o bottles cost at half a dollar a bot?
-	If a how comes 75 and
5.	If a boy earns 75 cents a week, what are his wages for a fortnight?
	Ang
6.	Ans What are his wages for a month?
	The quotient is 19 43
7.	The quotient is 12, the divisor 5; find the dividend.
	Ang
8.	Ans A man bought a horse for \$75, and sold it at a gain of \$15. What did he sell it for?
	Ang
9.	Ans How much change will I get from \$1.00, if I buy 5 yards of ribbon at 10 cents a yard and 2 dozen buttons at 15 cents a dozen?
	Ans
10.	How long will a quantity of oats last 3 horses if it will last one horse 93 days?
	Ans

MENTAL III...63.

1.	In a hall there were 88 chairs, and 31 chairs were carried out. How many were left?
2.	Ang.
3.	for thread, how much would you spend?
4.	32 baskets of grapes were picked, and then 2 dozen baskets more. How many baskets in all were picked?
5.	Quarter of a dollar and 40 cents are how many cents?
6.	a gallon and a half of oil?
7.	Ans If 8 pears cost 24 cents, what will 30 cost?
8.	Ans The sum of two numbers is 90. One of them is 45; what is the other?
9.	How much must I add to 60 to give 3 boys 25 each?
10.	How many half-pound packages can be made from 3½ lbs. of flour? Ans

MENTAL III.-64

	WINTIAT III04.
1	. How many feet in 144 inches?
2	Ans How many cups, each holding half a pint, will hold a half gallon of water?
3	Ans What will 11 eggs cost at 36 cents a dozen?
	Ans The remainder is 5, the quotient 6, the divisor 7. Find the dividend.
5	Ans When wheat is sold at the rate of 6 bushels for \$12, how many bushels must be given for 4 cords of wood at \$5 a cord?
6.	A boy on his way to market with 17 lobsters lost 5; the rest he sold for \$1.20. How much was that apiece?
7.	Ans If 9 mackerel cost 81 cents, what will a dozen cost?
8.	Ans
9.	Ans A merchant, having 10 melons, sold 6, and then bought five times as many as he sold. How many had he then? Ans

MENTAL III.—65.

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	MENIAL III.—65.
1.	John had 26 marbles; he won 32, and then sold 40. How many had he left?
2.	Ans A girl made 15 red pin-wheels, 16 blue ones and 17 blue and white. How many pin-wheels did she make?
3.	Ans In an orchard there are 100 peach trees and 57 plum trees; how many more peach trees than plum trees are there?
4.	Ans A lady bought 7 dozen buttons at 12 cents a dozen, and gave in payment one dollar. How much change should she receive?
5.	James bought 8 marbles at 5 cents each, 6 pencils for 10 cents each, and a book for 25 cents. He gave in payment 150 cents. How much change should he receive?
6.	A man divided \$200 among 20 persons. How much did each receive?
7.	Ans Eleven cows were sold for \$220. What was the selling price of each?
8.	Ans. 9 tables cost \$108. What will 12 tables cost? Ans.

	MENTAL III.—66
1.	A man earns \$100 per month, and pays \$15 for board and \$25 for other expenses. How
	much does he save each month?
	Ans
2.	At 4 cents each, how many lemons can I buy for 72 cents?
	Ans
3.	If 12 lbs. of cheese cost \$1.08, what will 20 lbs. cost?
	Ans
4.	At 24 cents for 12 apples, what will 72 apples cost?
	Ans
5.	How many inches long is a stick of wood 3 feet 7 inches long?
	Ans
6.	If a family eat 8 oranges a day, how long will 6 dozen last them?
7	Ans
••	Find the cost of a pound and a half of tea at 2 cents an ounce?
_	Ans
8.	Find the cost of 5 yards of gold braid at 5 cents a foot?
	Ans
9.	Find the cost of 2 yards of lace at 2 cents an inch
	Ans
10	A boy had a bushel of hickory nuts. He sold
	8 quarts at 10 cents a quart. How many pecks had he left?
	Ans

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